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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/795,773	03/08/2004	Robert C. Newman JR.	P/10-641	4092	
OSTROLENK, FABER, GERB & SOFFEN, LLC			EXAM	EXAMINER	
			LEE, W	LEE, WILSON	
	1180 Avenue of the Americas New York, NY 10036		ART UNIT	PAPER NUMBER	
•			2821		
			DATE MAILED: 03/22/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/795,773	NEWMAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Wilson Lee	2821				
The MAILING DATE of this commun Period for Reply	nication appears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD F THE MAILING DATE OF THIS COMMUN - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this community of the period for reply specified above, the maximum storm of the period for reply is specified above, the maximum storm of the period for reply any reply received by the Office later than three months are arrived patent term adjustment. See 37 CFR 1.704(b).	ICATION. s of 37 CFR 1.136(a). In no event, however, may a nunication. s0) days, a reply within the statutory minimum of thi atutory period will apply and will expire SIX (6) MOI will, by statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) file	ed on <u>08 <i>March 2004</i></u> .					
2a) ☐ This action is FINAL .	☐ This action is FINAL . 2b) ☑ This action is non-final.					
3) Since this application is in condition	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
closed in accordance with the practi	ice under <i>Ex parte Quayl</i> e, 1935 C.I). 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-22 is/are pending in the a	application.					
4a) Of the above claim(s) is/a	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>1-6 and 17</u> is/are allowed.						
6)⊠ Claim(s) <u>7-10,12 and 18-22</u> is/are re	ejected.					
7)⊠ Claim(s) <u>11 and 13-16</u> is/are objected	ed to.					
8) Claim(s) are subject to restrict	ction and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by th	e Examiner.					
10) The drawing(s) filed on is/are:	: a) ☐ accepted or b) ☐ objected to	by the Examiner.				
Applicant may not request that any obje	ction to the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including	the correction is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to	by the Examiner. Note the attache	d Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim a) ☐ All b) ☐ Some * c) ☐ None of:	for foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
1. Certified copies of the priority	documents have been received.					
2. Certified copies of the priority	documents have been received in A	application No				
3. Copies of the certified copies	of the priority documents have been	received in this National Stage				
application from the Internatio	nal Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office actio	n for a list of the certified copies not	received.				
Attachment(s)						
1) X Notice of References Cited (PTO-892)	A) T Interview	Summary (PTO-413)				
2) 🔲 Notice of Draftsperson's Patent Drawing Review (P	TO-948) Paper No(s)/Mail Date				
 Information Disclosure Statement(s) (PTO-1449 or Paper No(s)/Mail Date 	PTO/SB/08) 5) Notice of I 6) Other:	nformal Patent Application (PTO-152) 				

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Claim Rejections – 35 U.S.C. 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 9 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding Claim 9, " cut-in and cut-out points" is vague. What do cut-in and cut-out points mean?

Claim Rejections – 35 U.S.C. 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

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Claims 7, 8, 18-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Shackle et al. (5,539,281).

Regarding Claim 7, Shackle discloses an electronic ballast for driving at least one lamp comprising:

- a rectifying circuit (17) operatively connectable to an AC line (11);
- a current drawing circuit (60) connected across said rectifying circuit (17), and
- an inverter circuit (Q9, Q10) connected to said rectifying circuit (17) that supplies a lamp current to said at least one lamp (73);
- wherein said current drawing circuit (60) draws current from said AC line
 when the instantaneous voltage of said AC line nears zero (See Col. 1, lines
 54-64) to reduce the total harmonic distortion of the input current drawn by
 said ballast (See Col. 9, lines 27-39).

Regarding Claim 8, Shackle discloses that said current drawing circuit (60) is a cat ear circuit.

Regarding Claim 18, Shackle discloses an electronic ballast (See Figure 6) for driving at least one lamp (73) comprising:

- a rectifying circuit (17) operatively connectable to an AC line (11);
- a valley fill circuit (60) including an energy storage device, and
- said valley circuit operable to selectively charge said energy storage device (capacitor next to the rectifier 17) from said rectifying circuit through an impedance (21, 27) and a first electronic switch (Q1).

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Regarding Claim 19, discloses that said energy storage device is a capacitor (See Figure 6).

Regarding Claim 20, discloses that said impedance is an inductor (21).

Regarding Claim 21, discloses that said impedance is a resistor (27).

Regarding Claim 22, discloses said first electronic switch (Q1) is a MOSFET.

Claims 7, 8 are rejected under 35 U.S.C. 102(e) as being anticipated by Quazi et al. (6,359,395).

Regarding Claim 7, Quazi discloses an electronic ballast for driving at least one lamp comprising:

- a rectifying circuit (R) operatively connectable to an AC line (AC source inside the rectifier);
- a current drawing circuit (C1, D1, D2) connected across said rectifying circuit
 (R), and
- an inverter circuit (S1, S2) connected to said rectifying circuit (R) that supplies a lamp current to said at least one lamp (Lamp);
- wherein said current drawing circuit (60) draws current from said AC line when the instantaneous voltage of said AC line nears zero (See Col. 5, lines 35-62) to reduce the total harmonic distortion of the input current drawn by said ballast (See Col. 2, lines 34-47).

Regarding Claim 8, Quazi discloses that said current drawing circuit (C1) is a cat ear circuit.

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Claims 10, 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Jones (5,258,692).

Regarding Claim 10, Jones discloses an electronic ballast for driving at least one lamp comprising:

- a rectifying circuit (D1-D4) operatively connectable to an AC line (L, N);
- a valley fill circuit (C7, L2, F2) including a capacitor (C7);
- said valley fill circuit (C7, L2, F2) operable to selectively charge said capacitor from said rectifying circuit through an impedance (L2) and a first electronic switching device (F1); and
- an inverter circuit (SW1) including at least one electronic switching device for supplying lamp current to said at least one lamp;
- wherein said capacitor (C7) is charged during at least 90 of each half-cycle of said AC line (See Col. 3, lines 3-9).

Regarding Claim 12, Jones discloses that said valley fill circuit includes an inductor (L2).

Allowable subject matter

Claims 1-6, 17 are allowed.

The following is an examiner's statement of reasons for allowance:

The prior art neither discloses nor suggests the following limitations:

a cat ear circuit connected to said source of AC power, said cat ear circuit being adapted to conduct current for a first relatively short time following a first zero crossing of said line voltage and for a second relatively short time prior to the next zero crossing

of said line voltage thereby to reduce the total harmonic distortion of the current drawn from said source of AC power below that which would occur in the absence of said cat ear circuit such as required by claim 1;

a cat ear circuit that supplies power to said control circuit and wherein said inverter circuit draws a first current from said AC line during a predetermined portion of each half cycle which is greater than 900 of each half cycle of said AC line such as required by claim 17.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Claims 11, 13, 14-16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Church et al. (6,023,037) discloses an electric arc welder and plasma cutter.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Wilson Lee whose telephone number is (571) 272-1824.

Papers related to Technology Center 2800 applications may be submitted to Technology Center 2800 by facsimile transmission. Any transmission not to be considered an official response must be clearly marked "DRAFT". The official fax number is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Wilson Lee

Primary Examiner

U.S. Patent & Trademark Office

Klande